

Page 2, line 30

SEQ ID NO: 15 respectively) --

after "sequences" insert -- (SEQ ID NO: 13; SEQ ID NO: 14; and

Page 3, line 3

respectively) --

after "sequences" insert -- (SEQ ID NO: 10 and SEQ ID NO: 11

line 7

line 9

respectively) --

after "sequences" insert -- (SEQ ID NO: 7) --

line 13

line 15

SEQ ID NO: 6 respectively) --

after "sequence" insert -- (SEQ ID NO: 3) --

after "sequences" insert -- (SEQ ID NO: 4; SEQ ID NO: 5; and

line 19

after "fragment" insert -- (SEQ ID NO: 1) --

Page 4, line 22

after "fragment" insert -- (SEQ ID NO: 1) --

Page 14, line 25

line 27

after "sequence" insert -- (SEQ ID NO: 1) --

after "sequence" insert -- (SEQ ID NO: 2) --

Page 18, line 21

line 22

line 23

line 24

line 26

line 27

after "48 K N-Terminal" insert -- (SEQ ID NO: 3) --

after "48 K CNBR F 1" insert -- (SEQ ID NO: 4) --

after "48 K CNBR F 2" insert -- (SEQ ID NO: 5) --

after "48 K CNBR F 3" insert -- (SEQ ID NO: 6) --

after "52 K N-Terminal" insert -- (SEQ ID NO: 7) --

after "52 K CNBR F 1" insert -- (SEQ ID NO: 8) --

Page 18, line 28 after "52 K CNBR F 2" insert -- (SEQ ID NO: 9) --

Page 18, line 30 after "52 K N-Terminal" insert -- (SEQ ID NO: 10) --

line 32 after "52 K N-Terminal" insert -- (SEQ ID NO: 11) --

Page 19, line 1 after "74 K N-Terminal" insert -- (SEQ ID NO: 12) --

line 2 after "74 K CNBR F 1" insert -- (SEQ ID NO: 13) --

line 3 after "74 K CNBR F 2" insert -- (SEQ ID NO: 14) --

line 5 after "74 K CNBR F 3" insert -- (SEQ ID NO: 15) --

line 18 after "Oligo 48 K CNBr F 1" insert -- (SEQ ID NO: 16) --

line 20 after "Oligo 48 K CNBr F 2" insert -- (SEQ ID NO: 17) --

line 24 after "Oligo 48 K CNBr F 3" insert -- (SEQ ID NO: 18) --

Page 25, line 15 after "herein" insert the following Sequence Listing:

SEQUENCE LISTING

<110> Walker, John
Lee, Rogan
Dougherty, Stephen W.

<120> Antigen Composition Against Mycoplasma

<130> U-011415-0

<140> US 08/913,430

<141> 1997-09-12

<150> PCT/AU96/00149

<151> 1996-03-15

<150> PN 1789

<151> 1995-03-16

<160> 15

<170> PatentIn Ver. 2.0 - beta

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sub
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<212> DNA
<213> Mycoplasma hyopneumoniae
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atcgaaatcc aaccaggcat aaatcttgt cagtattat caagtcggta tttttcatt 240
atttctacta aaatattatt tgaatttgca tttccataa tctaaaattt tacattttt 300
tataacaatt ttaaaaatt actcttaat ttatagtatt ttttatttt ttagtctaaa 360

ttataaaatt atcttgaatt ttatTTGAAT ttttATAATT tagTACTAAA aaATACAAAT 420
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ttgtttgtat aattGAATTA actTGATTTG aaAGGGAACA aaATGAAAAA aATGCTTAGA 540
aaaaaaATTCT tGTATTcATC agCTATTAT gCAACTTCGC TTGcatcaAT TATTGcATT 600
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gagacgctaa aacataaaAGT aagtaatgat tctattcgaa tagcactaac CGATCCGGAT 720
aatcCTCGAT gaattagtgc ccaaaaAGAT attatttCTT atgttgatga aacaggAGCA 780
gcaactcaa caattacaaa aaaccaggat gcacaaaATA actgactcac tcagcaAGCT 840
aatttaAGCC cagcgccaaa aggatttatt attgcccTG aaaatggaAG tggagttgga 900
actgctgtta atacaattgc tgataaAGGA attccgattt TGcCTATGA tcgactaatt 960
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gatcaaATGA atgaatatCT aaaatCACAT atGCCCAAG agacaatttC ttttataca 1140
atcgCgggtt cccaAGATGA taataattCC caatTTTT ataATGGTGC aatgaaAGTA 1200
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gataaAGCCA aaACTTTAT caaAGACGGC gatcaaAAATA tgacaatttA taaacctgat 1560
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20 25 30

Gln Thr Glu Ser Gly Ser Thr Ser Asp Ser Lys Pro Gln Ala Glu Thr
35 40 45

Leu Lys His Lys Val Ser Asn Asp Ser Ile Arg Ile Ala Leu Thr Asp
50 55 60

Pro Asp Asn Pro Arg Trp Ile Ser Ala Gln Lys Asp Ile Ile Ser Tyr
65 70 75 80

Val Asp Glu Thr Glu Ala Ala Thr Ser Thr Ile Thr Lys Asn Gln Asp
85 90 95

Ala Gln Asn Asn Trp Leu Thr Gln Gln Ala Asn Leu Ser Pro Ala Pro
100 105 110

Lys Gly Phe Ile Ile Ala Pro Glu Asn Gly Ser Gly Val Gly Thr Ala
115 120 125

Val Asn Thr Ile Ala Asp Lys Gly Ile Pro Ile Val Ala Tyr Asp Arg
130 135 140

Leu Ile Thr Gly Ser Asp Lys Tyr Asp Trp Tyr Val Ser Phe Asp Asn
145 150 155 160

Glu Lys Val Gly Glu Leu Gln Gly Leu Ser Leu Ala Ala Gly Leu Leu
165 170 175

Gly Lys Glu Asp Gly Ala Phe Asp Ser Ile Asp Gln Met Asn Glu Tyr
180 185 190

Leu Lys Ser His Met Pro Gln Glu Thr Ile Ser Phe Tyr Thr Ile Ala
195 200 205

Gly Ser Gln Asp Asp Asn Asn Ser Gln Tyr Phe Tyr Asn Gly Ala Met
210 215 220

Lys Val Leu Lys Glu Leu Met Lys Asn Ser Gln Asn Lys Ile Ile Asp
225 230 235 240

Leu Ser Pro Glu Gly Glu Asn Ala Val Tyr Val Pro Gly Trp Asn Tyr
245 250 255

Gly Thr Ala Gly Gln Arg Ile Gln Ser Phe Leu Thr Ile Asn Lys Asp
260 265 270

Pro Ala Gly Gly Asn Lys Ile Lys Ala Val Gly Ser Lys Pro Ala Ser
275 280 285

Ile Phe Lys Gly Phe Leu Ala Pro Asn Asp Gly Met Ala Glu Gln Ala
290 295 300

Ile Thr Lys Leu Lys Leu Glu Gly Phe Asp Thr Gln Lys Ile Phe Val
305 310 315 320

Thr Arg Gln Asp Tyr Asn Asp Lys Ala Lys Thr Phe Ile Lys Asp Gly
325 330 335

Asp Gln Asn Met Thr Ile Tyr Lys Pro Asp Lys Val Leu Gly Lys Val
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Arg Ser Glu Val Glu Asn Glu Leu Lys Ala Lys Leu Pro Asn Ile Ser
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Phe Lys Tyr Asp Asn Gln Thr Tyr Lys Val Gln Gly Lys Asn Ile Asn
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<213> Mycoplasma hyopneumoniae

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<211> 29

<212> PRT

<213> Mycoplasma hyopneumoniae

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<212> PRT

<213> Mycoplasma hyopneumoniae

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<213> Mycoplasma hyopneumoniae

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<212> PRT

<213> Mycoplasma hyopneumoniae

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Ala Leu

<210> 13

<211> 20

<212> PRT

<213> Mycoplasma hyopneumoniae

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Ala His Glu Leu
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<210> 14

<211> 12

<212> PRT

<213> Mycoplasma hyopneumoniae

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b'
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<211> 19

<212> PRT

<213> Mycoplasma hyopneumoniae

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Leu Asp Asn

<210> 16

<211> 23

<212> DNA

<213> Mycoplasma hyopneumoniae

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20

b' word.